English user manual

Re:source M100 module

fm tuner 01

REVOX

Dominating Entertainment.
Revox of Switzerland.

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Welcome

Revox's long tradition in Tuner development has reached a new high point.

With the modular RDS Tuner, every cable user can enjoy an optimum reception with incredible sound quality.

Something that deserves a mention at this point is the integrated power-generating capacity that each M100 module has. All the required voltages are generated locally in the module. The M100 basis just delivers a single DC voltage to the module.

A further highlight is the touch-sensitive glass surface of the module's front panel that provides One-Touch-Operation. As soon as you touch the surface with your hand or just a finger, the Tuner Module is activated automatically. Unfortunately, we can't reduce the number of operating steps any further!

Of course, this RDS Tuner offers you automatic station identification as well as Radiotext

Talents

An important development goal alongside that of optimised reception quality, was achieving the convenience of operation that is typical for Revox.

As soon as you start installing and configuring your M100, you will immediately recognise that we haven't just made the grade but also that we invested sufficient time and commitment to pass with honours!

In spite of the simplicity and reliability of the operation, you shouldn't just put this manual to one side and rely on your intuition.

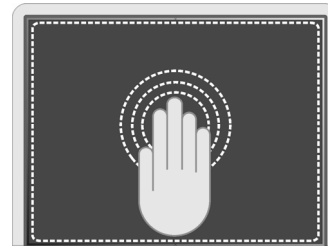
There are maybe some surprises in store.

Starting Tuner

The Tuenr module can be started in 3 different ways:

① **By touching the front panel**

Touch the glass front panel of the Tuner module, as shown in the picture on the right. If the M100 is switched off, the M100 basis now starts up and selects the source, *Tuner*. If, on the other hand, the M100 basis is already switched on, it switches over to the source, *Tuner*.

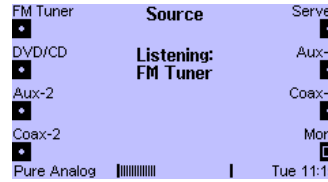


② **M100 basis Welcome menu**

The M100 basis has a proximity sensor. As soon as the M100's proximity sensor recognises that a hand or another object is approaching, it increases the background lighting and the **Welcome** menu appears. Now you have 5 seconds to select the source you want, in this case *FM Tuner*, by touching the corresponding sensor field. If no selection is made, the M100 basis returns to standby mode.

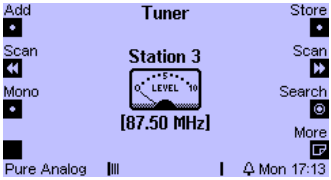
③ **M100 basis Source menu**

If the M100 basis is already operating, the source *Tuner* can be called through the M100 basis Source menu To do this, press the Source touch key on the M100 basis. The following menu field appears: The MMM module is activated by pressing the **FM Tuner** touch key.



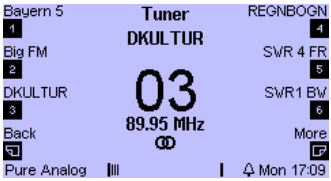
Tuner-Bedienung

The first time you set the Tuner up the Tuner Setup menu appears with the following display:



Here you can now search for, select and store radio stations. You will find an exact description in the chapter, *Setup menu*.

If the Tuner has already been in operation and stations have been stored, the following display appears:



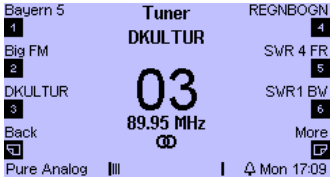
ⓘ
The 6 large touch keys on the front of the M100 are shown as follows in the following chapters:

Power | Timer | Menu | Sound | Source | Disc

Select station

To select a stored station, simply press the softkey assigned to the position where the station is stored. If more than 6 stations have been stored, these are to be found on further station pages.

As up to 50 stations can be stored, there can be a maximum of 9 pages. You can scroll through the various pages with the **More** and **Back** keys. This is a continuous loop so when you reach the last page, **More** will take you back to the first page.



RDS equipment

The *fm tuner 01* module from Revox is equipped with very effective RDS identification.

With RDS, the radio station sends the station name with some additional Radio text in some cases, alongside the audio signal.

This allows the tuner to recognize which station is being received automatically. As well as the station name, additional Radiotext appear sporadically in the display. This gives you information about the current artist, track, etc.

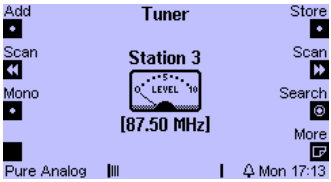
It can occur that some stations play the Radiotext in the same field as the station name. This is quite normal and does not indicate a fault in the tuner module.

ⓘ
RDS = Radio Data System

Setup menu

The **Setup** menu offers all basic setting options that are not needed every day, such as searching for stations, storing them and sorting them.

Select *Fm Tuner* from the *Source* menu and press and hold the Timer touch key at the M100 basis for approx 2 seconds. Then select the **Source** touch key. The following display appears:

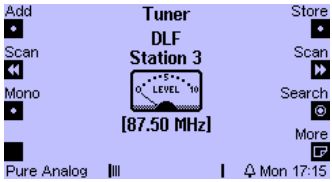


Sendersuche

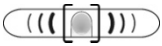
The Tuner **Setup** menu offers you three alternatives for searching for and storing stations.

1) Manual station searche

With **Search**, you set stations up manually



Press the **Search** touch key and select the required frequency using the touch slider.



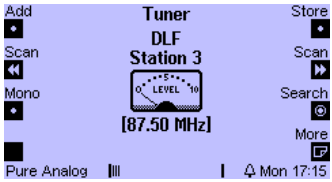
If an RDS signal is received, the station name appears in the display after a little delay.

With the **Add** and **Store** softkeys, you have two different ways of storing a new station – see also next page.

Storing stations

Add function

With the command **Add**, a station will be stored on a new station key, with the next highest number.



Using this function, you remain in the Setup menu and can scan for and store more stations.

A maximum of 50 stations can be stored.

If you want to return to the Tuner menu, simply press the [Menu] touch key.

Example
*If you have already stored 4 stations, key 5 will be added with the **Add** function and the station will be stored there.*

Store function

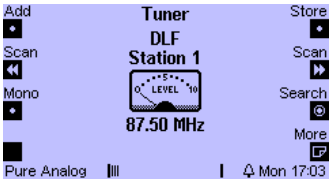
Using the command **Store**, a new station can be stored at the position which was being used before the manual frequency change was carried out.

This option returns you to the Tuner menu after storing the station.

Example
*You have stored a station with the frequency 93.5 MHz at **position 3** and using i.e. the **search** command to change to 95.0 MHz. If you then press **Store**, **Position 3** will then have 95.0 MHz stored on it*

2) Station scan

Using the **Scan** function, you can scan for stations with ascending or descending frequencies.

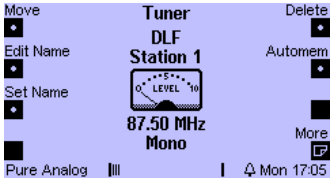


With **Scan** ▸▸ you will scan upwards through the range and with ◂◂ **Scan** you will scan downwards through the range, until the required station is found.

If you are happy with the choice of station, you can store it using the **Add** or **Store** functions described in the *Storing stations* section.

3) Full automatic station scan

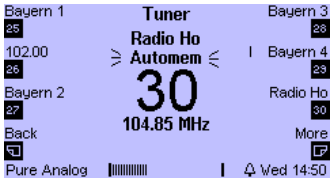
The **Automem** function scans for all available stations and then stores automatically in ascending frequency order.



Automem was especially developed for use with systems that are connected to a cable network. In this case, there are so many stations offering optimum transmission performance that it would be very time intensive to manually search for and store all the stations. Automem can store a maximum of 50 stations.

Press and hold the **Automem** softkey for **approx. 5 seconds**. The Timer now automatically starts to scan for and store stations.

While the Tuner is scanning, the word **Automem** flashes in the display.



Once all stations have been stored, the station stored at position 1 will start to be played.

Mono-Betrieb

A lot of background noise is generated with many stations with a weak signal. This can be significantly reduced by switching from stereo to mono operation.

You can toggle between stereo and mono operation by pressing the **Mono** touch key. Press it once in stereo mode to switch to mono and vice-versa.

The following display shows the station *DLF* in mono operation.

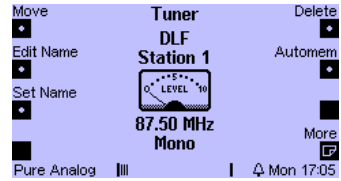
If you want to return to the Tuner menu, simply press the Menu touch key. Mono operation is maintained until you change source or station.

If you want the mono setting to be stored permanently, the station must be stored again as described in the *Storing stations* section.

Edit station names

The **Edit Name** function enables you to change the names assigned to the stations retrospectively to your own requirements. This is particularly useful if the station doesn't transmit any RDS signal or if you simply want to change the name to one of your own personal choice.

From the Tuner menu, choose the station whose name you want to change.



Edit function

By pressing the **Edit Name** touch key, you get to the menu shown below.

The following functions are available to you for changing names:

The ⇦ **Cursor** ⇨ touch keys move the **[ ]** cursor left and right respectively.

The **Delete** touch key deletes a character where the **[ ]** cursor is positioned.

The **Insert** touch key inserts a character to the left of the **[ ]** cursor.

The **Store** touch key saves the currently display name and returns you to the Tuner menu.

The **Cancel** touch key returns you to the Tuner menu without saving the changes you have made.

Edit characters

The actual modification of the individual characters, the letters and numbers, is done using the touch slider.

First you go through the alphabet with uppercase followed by lowercase letters, followed by numbers from 0 to 9 and then special characters. You can also go through this sequence in reverse.

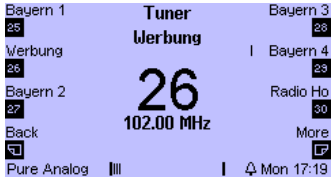
Character sequence:

The customised name assignments can be done easily and quickly using the touch slider in combination with the editing commands.

Update station names

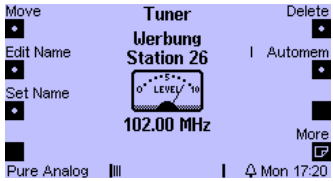
With the two scan options of **Automem** and **Scan**, it can happen that at the time the station is being stored, no RDS signal was available or the stations was using the station name field for Radiotext. In this case, the Tuner wouldn't store the actual station name but just its frequency or some Radio-text.

To avoid the entering of the station names by hand afterwards, the Tuner module offers the **Set Name** function.



In the above example, the station with the name ***Werbung*** has been entered for the station stored on position 4. Proceed as follows to carry out an automatic correction of this name:

From the Tuner menu, choose the station whose name you want to change and enter the Setup menu of the Tuner.



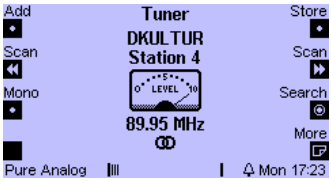
Wait a short time until the Tuner has identified and displayed the correct RDS name and then press the **Set Name** softkey. The correct name is now stored and you are returned automatically to the Tuner menu.

If no RDS station name appears, this means that the station in question does not broadcast an RDS signal. In this case, you can enter a name of your choice using the **Edit Name** function.

Move station

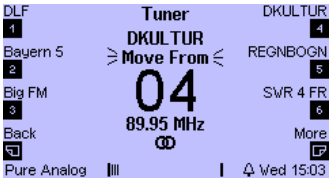
Using the **Move** function, you can move stations which have already been stored to a different position.
In this way, you can for example, move your six favourite stations to the first station page so that you don't have to scroll through the various pages.

You call this function in the Tuner **Setup** menu.



In this example, the station ***DKULTUR*** is at position 4. You would like to move it to position 3.

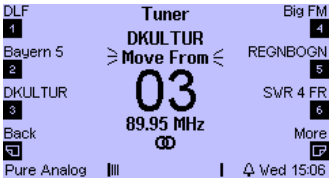
When you press the **Move** key, you will be returned to the Tuner menu and the flashing ≥**Move From**≤ symbol in the display tells you that you can now select the required station position which you wish to move.



In our example, you would now press the position 4, with the station name ***DKULTUR***.

Immediately, the display changes from showing ≥**Move From**≤ to showing ≥**Move To**≤ which shows you that you can now choose the position you wish to move to.

If this is not on the current page, you can scroll to the correct page with **Back** or **More**.
Continuing with our example, you would use the **Back** softkey to move to the first page which has positions 1 to 6 on it. Here you would press position 3 and ***SWR3*** would be moved to position 3.



All the stations on the following key positions are then move up by one.

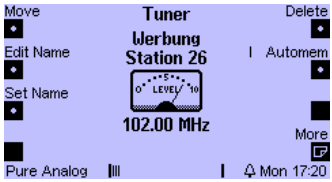
Once you have moved the station to the required position, the display changes back to flashing.:

≥**Move From**≤
You can repeat the procedure as often as you need.

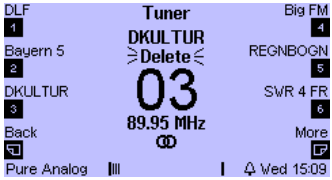
If you want to return to the Tuner menu, simply press the Menu touch key.

Delete station

The **Delete** function deletes a station and fills the "hole" left by moving all following stations by one position.



When you press the **Delete** key, you will be returned to the Tuner menu and the flashing ≥**Delete**≤ symbol in the display tells you that by simply pressing the corresponding key, the corresponding station will be deleted.



You can repeat this procedure as often as you want, until you have deleted all the unwanted stations.

Once you have completed all the deletion you can leave the **Delete** function by simply pressing the Menu touch key

Tuner module installation

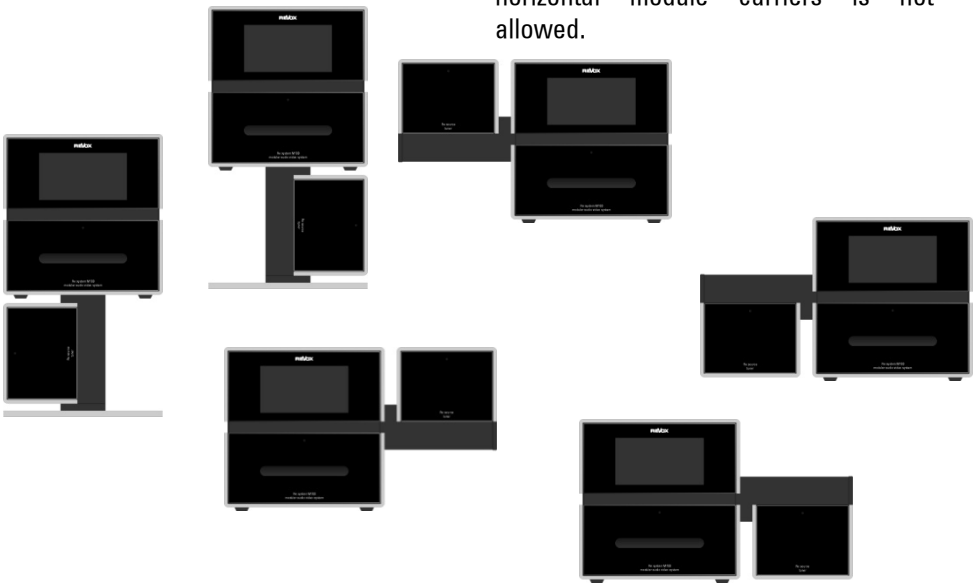
For installation, the Tuner module needs a 2-way or 4-way module carrier that it is located in. This module carrier is mounted on the left, right or underneath the M100 basis. The pictures here show an M100 basis with a 2-way and a 4-way module carrier installed. The installation of the module carrier is fully explained in the M100 basis User manual.

M100 basis installation versions

The M100 system gives you a lot of freedom when installing your modules. The pictures below show the version options for a Server module with a 2-way module carrier. You have the same version options of course with a 4-way module carrier. Only two rules have to be followed:

Rule 1
The number of modules is limited to 4, both horizontally and vertically.

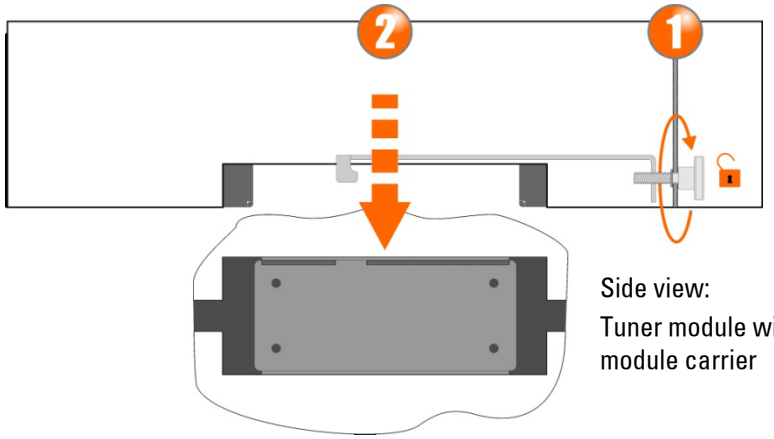
Rule 2
Horizontally, up to 2 module carriers can be added (left or right). Vertically on the other hand, only one module carrier can be added. A combination of vertical and horizontal module carriers is not allowed.



Installation steps 1/2

1

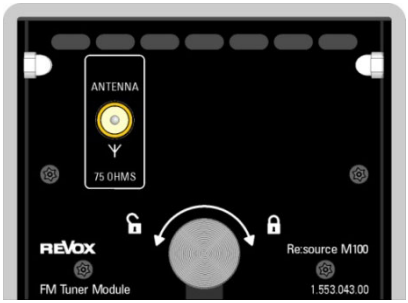
Loosen the locking screw on the back of the module in a counter-clockwise direction in the direction of the symbol until you feel a resistance. The two locking hooks located on the underneath of the module are now brought to a position so that you can attach the module. Continue with point **2.**



Side view:
Tuner module with module carrier

2

Position the module on the module carrier making sure that the locking hooks are located over the corresponding cut-outs in the module carrier. Shortly before the plug-in card is seated flat on the module carrier, you will feel a mechanical resistance, caused by the bus board contact strip.

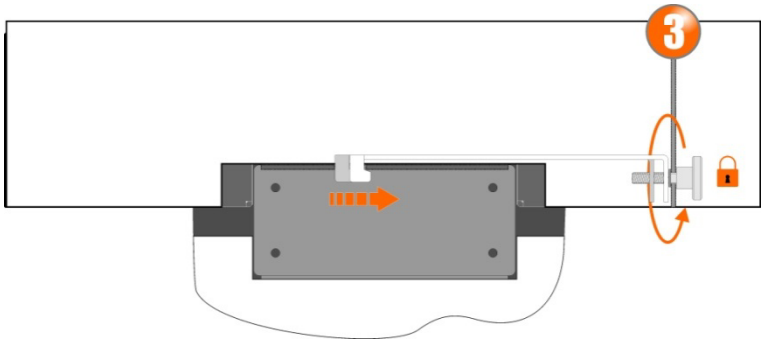


Rear view:
Tuner module with locking screw

Installation steps 3/4

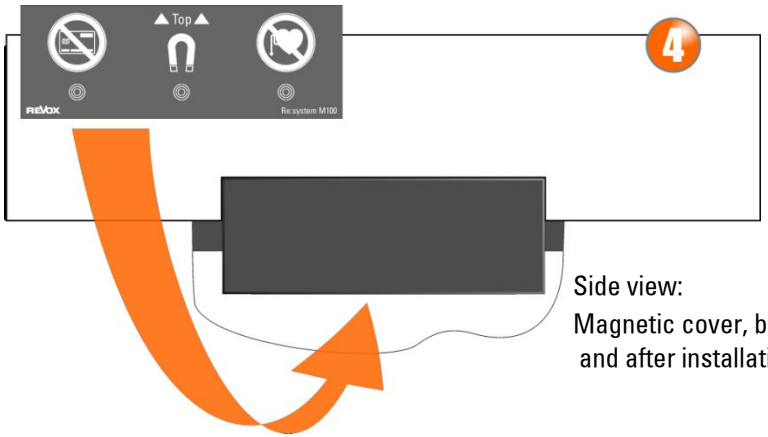
3

In the third step, the module is now locked onto the module carrier. This is done by turning the locking screw in a clockwise direction towards the symbol until a clear, mechanical resistance is felt. The module is now securely fixed to the module carrier.



4

In the last step, the magnetic cover is installed on the module carrier. Please take note of the safety advice printed on it.



Side view:
Magnetic cover, before and after installation.

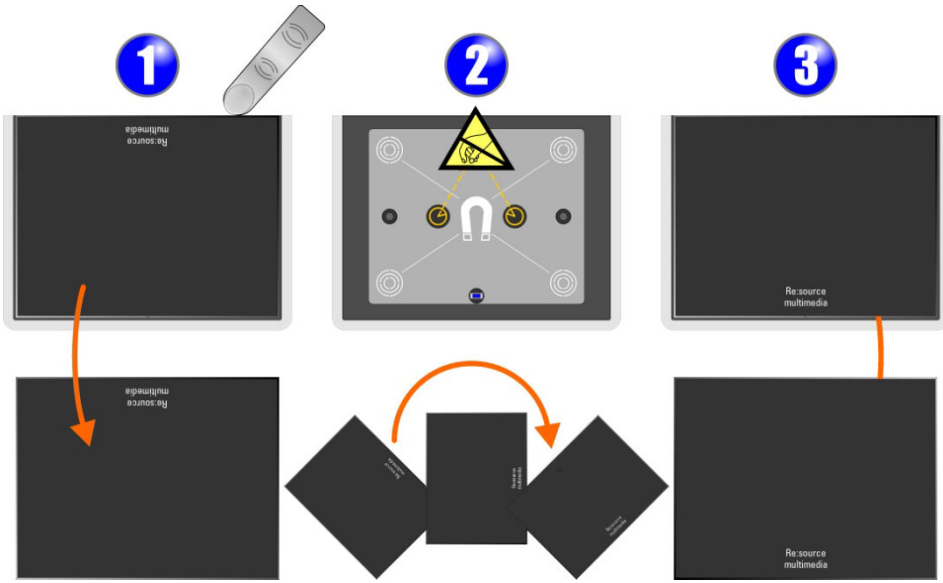
Turning the front glass

Depending on the installed configuration, (see picture on the right), it can be necessary to turn the front glass so that the printing is not upside down. The Server module front glass is held in place by four concealed magnets and accordingly, can be removed for this purpose.

1. Lift the glass front off the front of the module by levering it gently at the bottom edge, using a fingernail.
2. Turn the front glass
3. Carefully reposition the front glass on the front of the module.

Important advice

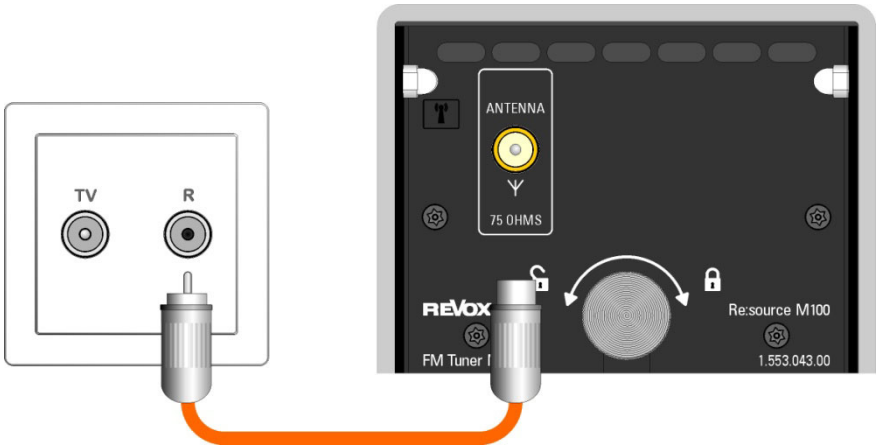
During the modification, two gold contact springs are exposed, which should not be touched. Otherwise, the proximity processor that carries out the touch function when the unit is in operation could be damaged.



FM Tuner connection

Connect the aerial socket to the rear side of the Tuner module, using a 75 Ω aerial cable.
The tuner signal can either be received through a roof mounted aerial with aerial amplifier or by connecting to a cable network.

We do not recommend the use of a room aerial.



Appendix

Guarantee

The guarantee period is 24 months from the date of purchase.

Your dealer should be your first contact if you need service. If he can't give you the help you need, send the Server module carriage free and without any accessories to your national Sales Office.

Please supply a complete description of the problem and a full return postal address.

Scope of delivery

- M100 fm tuner 01
- Aerial cable

Technical data

RDS Tuner with radio text	Measured data	Measuring conditions
Frequency range	87.50 - 108.00 MHz	
Low noise separation: Stereo	50 dB	44 dBµV
	67 dB	60 dBµV
Mute threshold	30 dBµV	
Max. distortion	< 0,1 %	
Frequency response	30 Hz - 15 kHz	
Crosstalk	> 48 dB	

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Errors and omissions excepted. Product subject to modification.

User manual M100 fm tuner 01 / Part. no.: 10.30.3254

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